

# Yao Shuai

## List of Publications by Year in descending order

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papers

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567281

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43  
docs citations

43  
times ranked

1214  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonvolatile bipolar resistive switching in Au/BiFeO <sub>3</sub> /Pt. Journal of Applied Physics, 2011, 109, 124117.	2.5	116
2	Exploiting Memristive BiFeO <sub>3</sub> Bilayer Structures for Compact Sequential Logics. Advanced Functional Materials, 2014, 24, 3357-3365.	14.9	116
3	Decisive role of oxygen vacancy in ferroelectric versus ferromagnetic Mn-doped BaTiO <sub>3</sub> thin films. Journal of Applied Physics, 2011, 109, .	2.5	112
4	Forming-Free Resistive Switching in Multiferroic BiFeO <sub>3</sub> thin Films with Enhanced Nanoscale Shunts. ACS Applied Materials & Interfaces, 2013, 5, 12764-12771.	8.0	50
5	Reduced leakage current in BiFeO <sub>3</sub> thin films with rectifying contacts. Applied Physics Letters, 2011, 98, .	3.3	39
6	Rectifying filamentary resistive switching in ion-exfoliated LiNbO <sub>3</sub> thin films. Applied Physics Letters, 2016, 108, .	3.3	30
7	Resistive switching behavior in single crystal SrTiO <sub>3</sub> annealed by laser. Applied Surface Science, 2016, 389, 1104-1107.	6.1	28
8	Surface modifications of crystal-ion-sliced LiNbO <sub>3</sub> thin films by low energy ion irradiations. Applied Surface Science, 2018, 434, 669-673.	6.1	28
9	Substrate effect on the resistive switching in BiFeO <sub>3</sub> thin films. Journal of Applied Physics, 2012, 111, .	2.5	26
10	The thin film bulk acoustic wave resonator based on single-crystalline 43°-Y-cut lithium niobate thin films. AIP Advances, 2020, 10, .	1.3	26
11	Mo/Ti multilayer Bragg reflector for LiNbO <sub>3</sub> film bulk acoustic wave resonators. Journal of Applied Physics, 2020, 128, .	2.5	23
12	Control of Rectifying and Resistive Switching Behavior in BiFeO <sub>3</sub> Thin Films. Applied Physics Express, 2011, 4, 095802.	2.4	22
13	Switchable diode effect in oxygen vacancy-modulated SrTiO <sub>3</sub> single crystal. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	20
14	Improved retention of nonvolatile bipolar BiFeO <sub>3</sub> resistive memories validated by memristance measurements. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 636-639.	0.8	16
15	Ferroelectric and flexible barrier resistive switching of epitaxial BiFeO <sub>3</sub> films studied by temperature-dependent current and capacitance spectroscopy. Journal of Materials Science: Materials in Electronics, 2016, 27, 7927-7932.	2.2	16
16	Ar <sup>+</sup> ions irradiation induced memristive behavior and neuromorphic computing in monolithic LiNbO <sub>3</sub> thin films. Applied Surface Science, 2019, 484, 751-758.	6.1	16
17	Infrared detector based on crystal ion sliced LiNbO <sub>3</sub> single-crystal film with BCB bonding and thermal insulating layer. Microelectronic Engineering, 2019, 213, 1-5.	2.4	15
18	Wide Band BAW Filter Based on Single-Crystalline LiNbO <sub>3</sub> Thin Film With Insulating Bragg Reflector. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1535-1541.	3.0	15

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19	Reliable resistive switching and synaptic plasticity in Ar <sup>+</sup> -irradiated single-crystalline LiNbO <sub>3</sub> memristor. Applied Surface Science, 2022, 596, 153653.	6.1	15
20	Fabrication of Y128- and Y36-cut lithium niobate single-crystalline thin films by crystal-ion-slicing technique. Japanese Journal of Applied Physics, 2018, 57, 04FK05.	1.5	14
21	A Comprehensive Study of a Micro-Channel Heat Sink Using Integrated Thin-Film Temperature Sensors. Sensors, 2018, 18, 299.	3.8	12
22	A Solidly Mounted Resonator Fabricated by LiNbO <sub>3</sub> Single-Crystalline Film on Flexible Polyimide Substrate. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2585-2589.	3.0	12
23	Voltage-programmable negative differential resistance in memristor of single-crystalline lithium niobate thin film. Applied Physics Letters, 2022, 120, .	3.3	11
24	High specific detectivity infrared detector using crystal ion slicing transferred LiTaO <sub>3</sub> single-crystal thin films. Sensors and Actuators A: Physical, 2019, 300, 111650.	4.1	10
25	Resistive Switching Effects of Crystal Ion Slicing Fabricated LiNbO <sub>3</sub> Single Crystalline Thin Film on Flexible Polyimide Substrate. Advanced Electronic Materials, 2021, 7, 2100301.	5.1	10
26	Plasma-Induced Nonvolatile Resistive Switching with Extremely Low SET Voltage in TiO <sub>x</sub> F <sub>y</sub> with AgF Nanoparticles. ACS Applied Materials & Interfaces, 2016, 8, 32956-32962.	8.0	9
27	A model based comparison of BiFeO <sub>3</sub> device applicability in neuromorphic hardware. , 2013, , .		8
28	Investigation of the Temperature Fluctuation of Single-Phase Fluid Based Microchannel Heat Sink. Sensors, 2018, 18, 1498.	3.8	8
29	BAW Resonator with an Optimized SiO <sub>2</sub> /Ta <sub>2</sub> O <sub>5</sub> Reflector for 5G Applications. ACS Omega, 2022, 7, 20994-20999.	3.5	8
30	Highly precise Ti/Pt/Cr/Au thin-film temperature sensor embedded in a microfluidic device. Rare Metals, 2021, 40, 195-201.	7.1	7
31	Effects of Ar <sup>+</sup> irradiation on the performance of memristor based on single-crystalline LiNbO <sub>3</sub> thin film. Journal of Materials Science: Materials in Electronics, 2021, 32, 20817-20826.	2.2	7
32	Compliance-current-modulated resistive switching with multi-level resistance states in single-crystalline LiNbO <sub>3</sub> thin film. Solid State Ionics, 2019, 334, 1-4.	2.7	4
33	A Memristor-Based Bioinspired Multimodal Sensory Memory System for Sensory Adaptation of Robots. Advanced Intelligent Systems, 2022, 4, .	6.1	4
34	Numerical and Experimental Study of Valve-Less Micropump Using Dynamic Multiphysics Model. , 2018, , .		3
35	The electrical properties of single-crystalline Z-cut LiNbO <sub>3</sub> thin films fabricated by crystal-ion-slicing technique. Journal of Materials Science: Materials in Electronics, 2019, 30, 8996-9002.	2.2	3
36	Fabrication of large-scale flexible silicon membrane by crystal-ion-slicing technique using BCB bonding layer. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	3

#	ARTICLE	IF	CITATIONS
37	Effects of rapid thermal annealing parameters on crystal ion slicing-fabricated LiTaO <sub>3</sub> thin film. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	2
38	Microchannel Heat Sink with Enhanced Heat Transfer Performance by Laser Process. , 2018, , .		1
39	Ultra-high Efficient Integrated Microchannel Cooling for Multi-unit Microsystems. , 2019, , .		1
40	Ion Implantation Caused Defects and Their Effects on LiTaO <sub>3</sub> Crystal Exfoliation. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, .	1.8	1
41	Investigation of Temperature Fluctuation Resulted in Dissolved Gas for Single-Phase Microchannel Heat Sink. , 2018, , .		0
42	Investigation of Temperature Fluctuation Resulted in Dissolved Gas for Single-Phase Microchannel Heat Sink. , 2018, , .		0